

What is claimed is:

1. A stock exchange supporting system comprising:

a client terminal having a web browser; and

5 a data processing unit which is connected to the client terminal  
and a mainframe computer of stock market which executes transaction  
of stock exchange,

wherein the data processing unit includes:

(a) an investment information register and management module  
10 which receives client identification information and stock  
transaction reservation information including at least an item  
to be transacted from the client terminal, registers the information  
separating it into individuals or groups, and provides execution  
results of a client's command to a client by receiving commands  
15 such as modification or retrieve of the registered stock transaction  
reservation information or execution of stock transaction from  
the client terminal, receiving stock exchange information from  
the mainframe computer of stock market and then executing the  
client's commands and

20 (b) transaction execution module which monitors present stock  
prices of items registered by the investment information register  
and management module as a stock transaction reservation information  
on and after a day when the stock transaction reservation information  
is registered, and makes and sends a transaction execution order  
25 to the mainframe computer of the stock market.

2. The stock exchange supporting system of claim 1, wherein

the data processing unit is a server of a securities firm or an investment consultancy firm, the server supporting stock exchange and providing stock transaction information.

5           3. The stock exchange supporting system of claim 1, wherein the data processing unit is a client terminal which is connected to a server of a securities firm through the communication network, the server supporting stock transaction and operation of the client terminal.

10           4. The stock exchange supporting system of claim 2, wherein the stock transaction reservation information includes:

client paging information such as client terminal address, pager number, and paging time; and

15           stock transaction information such as at least one item to be transacted as discretionary investment or informed as investment consultancy information, reserved bidding price (buy or sell bidding price range), transaction type (individual or basket), count of transaction times for each item, and at least one condition for  
20           basket transaction.

5           5. The stock exchange supporting system of claim 2, wherein the transaction execution module comprises an individual item buy supporting module which compares present stock prices of items  
25           registered by the investment information register and management module as the stock transaction reservation information with the buy bidding price range of the items (from minimum buy bidding price

to maximum buy bidding price), in which the registered buy bidding price range is the price range registered as the stock transaction reservation information, sends a buy transaction order to the mainframe computer of stock market with the registered buy bidding price range and registered buy volumes when the present stock price is in the range of the registered buy bidding price or lower than the range of the registered buy bidding price, and transfers execution results of the buy transaction to the investment information register and management module;

an individual item sell supporting module which compares present stock prices of items registered by the investment information register and management module as the stock transaction reservation information with registered sell bidding price ranges of the items (from maximum sell bidding price to minimum sell bidding price), in which the registered sell bidding price range is price range registered as the stock transaction reservation information, sends a sell transaction order to the mainframe computer of stock market with the registered sell bidding price ranges and registered sell volumes when the present stock price is in the range of the registered sell bidding price or higher than the range of the registered sell bidding price, and execution results of sell transaction order to the investment information register and management module.

6. The stock exchange supporting system of claim 2, wherein the transaction execution module comprises:

a basket items buy supporting module which checks present stock prices of items registered by the investment information register

and management module as the stock transaction reservation information, generates at least one condition to execute basket items buy transaction, sends a basket items buy transaction order to the mainframe computer of stock market with market price and registered buy volumes when the generated condition is matched with a predetermined condition registered by the investment information register and management module, and transfers execution results of basket items buy transaction order to the investment information register and management module;

10 a basket items sell supporting module which checks present stock prices of items registered by the investment information register and management module as the stock transaction reservation information, generates at least one condition to execute basket items sell transaction, sends a basket items sell transaction order to the mainframe computer of stock market with market price of each item and registered sell volumes when the generated condition is matched with a predetermined condition registered by the investment information register and management module, and transfers execution results of basket items sell transaction order to the investment information register and management module.

7. The stock exchange supporting system of claim 5, wherein the transaction execution module further checks the execution results of the buy transaction order, then makes and sends a sell transaction order for the items that have been bought in accordance with the buy transaction order to the mainframe computer of the stock market with sell bidding price and volumes as registered by the investment

information register and management module, and then makes and sends a new buy transaction order with buy bidding price and volumes as registered after the sell transaction order is executed and confirmed, thereby the buy transaction orders and the sell transaction orders  
5 are alternately repeated up to n times.

8. The stock exchange supporting system of claim 6, the transaction execution module further checks the execution results of the buy transaction order, then makes and sends a sell transaction  
10 order for the items that have been bought in accordance with the buy transaction order to the mainframe computer of the stock market with sell bidding price and volumes as registered by the investment information register and management module, and then makes and sends a new buy transaction order with buy bidding price and volumes as  
15 registered after the sell transaction order is executed and confirmed, thereby the buy transaction orders and the sell transaction orders are alternately repeated up to n times.

9. The stock exchange supporting system of claim 4, wherein  
20 the data processing unit further comprises a client paging supporting module which retrieves client paging information and transmits client paging signal to the client terminal that is registered to be informed at the predetermined paging time in case that present stock price of an item registered by the investment information and management  
25 module is matched with the reserved bidding price (buy bidding price range or sell bidding price range).

10. The stock exchange supporting system of claim 9, wherein the client paging supporting module comprises:

a priority determination module for determining priority of paging information by distinguishing between real time paging information and reservation paging information; and

an information sending/recording and terminal management module for selecting appropriate communication protocol and establishing connection to the communication network such that the client paging information decided to be sent to the client by the priority determination module is classified into appropriate data formats so as to be automatically displayed on web pages provided by corresponding mobile communication service providers, and storing transmission-reserved information in a memory.

11. The stock exchange supporting system of claim 10, wherein the client paging supporting module further comprises at least one client paging terminal connected to the information sending/recording and terminal management module through a local area network (LAN), and having a communication interface for connecting the client paging supporting module to the LAN and a telecommunication interface means (i.e. modem card) for connecting the client paging supporting module to a telecommunication network, and

an internet connection program and an automatic web page writing program, thereby once power is on, the internet connection program is loaded and an IP (internet protocol) address of a mobile communication service provider is automatically sent to a domain

server, so that the client paging terminal reaches a web page provided by the mobile communication service provider and automatically writing the client paging information into the web page.

5           12. The stock exchange supporting system of claim 9, wherein the client paging supporting module sends stock price information received from the mainframe computer of stock market to a client terminal with the client paging information.

10           13. The stock exchange supporting system of claim 9, wherein the client paging supporting module classifies the client paging information into at least one group of information and sends the client paging information belonged to each group at regular intervals.

15           14. The stock exchange supporting system of claim 12, wherein the client paging supporting module classifies the client paging information into a plurality of groups and sends the client paging information belonged to each group at regular intervals.

20           15. The stock exchange supporting system of claim 3, wherein the investment information register and management module comprises a discretionary investment reservation information management module providing at least one web page which includes input boxes for receiving client identification information, password, client's registered  
25   number, code or title of item to be transacted, and volumes and value amount of the item to be transacted; and supporting registration reservation and reserved transaction in accordance with investment

information from the user terminal through the web page; and updating the stock transaction reservation information in response to the execution results of stock transaction.

5        16. The stock exchange supporting system of claim 15, wherein the discretionary investment reservation information management module provides a plurality of launch buttons each of which is linked with a web page having information corresponding to each of launch buttons, wherein each launch button has a command instructing a  
10 specific action such as register individual investment, register group investment, retrieve registered individual investment items, retrieve registered group investment items, print list of items invested by an individual, print list of items invested by a group, display list of clients by a group, display list of all clients,  
15 register investment fund, and retrieve investment fund.

17. The stock exchange supporting system of claim 16, wherein the discretionary investment reservation information module includes individual investment register supporting module providing a web  
20 page having a plurality of input boxes for receiving code and title of item, maximum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, maximum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell price  
25 at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes and display boxes for displaying buy value amount, sell value amount, current cash, balance.



18. The stock exchange supporting system of claim 17, wherein the individual investment register supporting module further provides the web page with a launch button of graphic information linked with a web page showing overhanging supply or daily/monthly stock price changes, an input boxes for receiving reference dates to set corresponding period, and display frames for displaying highest, lowest, and present stock prices during the period.

19. The stock exchange supporting system of claim 16, wherein the discretionary investment reservation information module includes a group investment register supporting module and operates the group investment register supporting module when the launch button of register group investment is selected, the group investment register supporting module providing a web page having a plurality of input boxes for receiving group name, ESN (electronic serial number) of pager, code number and title of item, maximum reserved buy bidding price at 1- $n_{th}$  count of buy transaction, minimum reservation buy bidding price at 1- $n_{th}$  count of buy transaction, reserved buy volumes, maximum reserved sell bidding price at 1- $n_{th}$  count of sell transaction, minimum reservation sell bidding price at 1- $n_{th}$  count of sell transaction, and reserved sell volumes; and display boxes for displaying sum of buy value amount, sum of sell value amount, current cash, balance, wherein if the group name is inputted into the corresponding input box the web page further displays ESN, client's registered number, list of clients belong to the group.

20. The stock exchange supporting system of claim 19, the group investment register supporting module further provides the web page with a plurality of display boxes for displaying sum of reserved buy volumes at first count of buy transaction, sum of reserved sell  
5 volumes at first count of sell transaction, sum of investment amount of which clients reserved to buy shares at the first count of buy transaction, and present cash amount.

21. The stock exchange supporting system of claim 16, wherein  
10 the discretionary investment reservation information management module includes an individual investment query supporting module and drives the individual investment query supporting module when the launch button of retrieve individual investment is selected, in which the individual investment query supporting module provides  
15 a web page having a plurality of input boxes for receiving client's registered number or client's name, and display boxes for displaying client's name, client's registered number, pager number, code and title of item on which transaction reservation is made by client and transacted, maximum reserved buy bidding price at 1-n<sup>th</sup> count  
20 of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, execution results of the 1-n<sup>th</sup> count of buy transaction, maximum reserved sell price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes, and  
25 execution results of 1-n<sup>th</sup> count of sell transaction.

22. The stock exchange supporting system of claim 16, wherein

the discretionary investment reservation information management module includes a group investment query supporting module and operates the group investment query supporting module when the launch button of retrieve group investment is selected, the group investment query supporting module providing a web page having an input box for receiving a group name and a plurality of display boxes for displaying ESN of pager, code and name of item on which transaction reservation is made and transacted, maximum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, execution results of the 1-n<sup>th</sup> count of buy transaction, maximum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sup>th</sup> count of sell transaction.

23. The stock exchange supporting system of claim 15, wherein the investment information register and management module comprises an investment fund management module, an investment consultancy information management module, a recommended items management module, and basket items buy/sell reservation information management module,

wherein the investment fund management module provides a web page and manages discretionary investment in response to information inputted through the web page, the web page having a plurality of input boxes, a plurality of display boxes, and a plurality of launch buttons, the input boxes receiving fund name, items to be transacted through the fund, count of transaction, and reference date to set the period of transaction, the display boxes displaying highest,

lowest, and present prices during the period, and the launch buttons including graphic information and yield estimation, of which the launch button of graphic information is linked with a web page showing graphic information of daily/monthly stock price changes and  
5 overhanging supply during the period and the launch button of yield estimation is linked with a web page showing yield information during the period;

the investment consultancy information management module provides a web page having stock price information such as buy or  
10 sell recommendation, buy bidding price or sell bidding price and buy volumes and sell volumes and manages the stock price information shown on the web page;

the recommended items management module provides a web page including a plurality of item buttons, each of which is linked with  
15 a web page contains corresponding information related to each item so as to guide the clients with items which are worth investing; and

the basket items buy/sell reservation information management module registers and manages items to be basket-transacted by  
20 receiving code or title of the items, volumes and value amount.

24. The stock exchange supporting system of claim 23, the investment fund management module provides the yield information such as percentage of return on gross investment when the launch  
25 button of yield estimation is selected, wherein in case the title or code of the item is inputted into the input box included in the web page linked with the launch button of yield estimation, yield

information of each item such as investment amount on the item, yield on the item, share holding status, balance is presented on the web page.

5           25. The stock exchange supporting system of claim 23, wherein the recommended items management module provides a web page including a plurality of buttons, each of which is linked with a corresponding web page to display corresponding information such as list of items highly undervalued, list of items ranked high in PER (price earnings  
10 ratio), list of items having high retained earnings, list of items ranked high in average value of numerical order in each items of undervalued /PER/retained earnings, list of items recorded consecutive daily permissible high price, list of items having highly advanced rate in short term, list of items recorded price at low  
15 during a predetermined period, list of items recorded low advanced rate, list of items having high gain over equity, list of items recorded price at new high, and list of items recorded highly advanced rate between lowest price and highest price.

20           26. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items highly undervalued and average PBR (price book value ratio) by estimating ratio of share price over book value average for recent years when the high undervalued items button is selected.

25

          27. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying

list of items ranked high in PER by estimating percentage of EPS (earnings per share) average for recent years over present stock price when the button of list of items ranked high in PER is selected.

5        28. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items ranked high in percentage of retained earning value over total equity (present stock price x capital / face value) when the button of retained earnings is selected.

10        29. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items ranked high in average value of numerical order in each items of undervalued, PER and retained earnings when the button  
15 of undervalued/PER/retained earnings is selected

30. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items recorded the consecutive daily permissible high price  
20 more than two times when the button of list of items recorded consecutive daily permissible high price is selected.

31. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying  
25 list of items recorded high advanced rate from the moving mean price line during a predetermined period when the button of list of items having high advanced rate in short term is selected.

32. The stock exchange supporting system of claim 25, wherein the recommended items management module retrieves items recorded price at low during the predetermined period, provides buy information (buy point) of  $n_{th}$  count, the buy point being price level advanced at a certain rate from the price at low, and then provides sell information (sell point) of  $n_{th}$  count in which the sell point is price level advanced at a certain rate from the buy point, when the button of list of items recorded price at low is selected.

33. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items recorded lowest advanced rate from price at low during a predetermined period which is set by the client inputting a reference date (year, month, date) when the button of list of items recorded low advanced rate is selected.

34. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items ranked high in percentage of net profit value per share over equity when the button of list of items having high gain over equity is selected and semi-annual revenue or average revenue per year is set.

35. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items recorded price at new high from a reference date to

the present when the button of list of items recorded price at new high is selected and the reference date (year, month, and data) is inputted by the client.

5        36. The stock exchange supporting system of claim 25, wherein the recommended items management module provides a web page displaying list of items ranked high in advanced rate of share price from the lowest price level when the button of list of items recorded high advanced rate from lowest price level to highest price level is  
10    selected.

37. The stock exchange supporting system of claim 23, wherein the basket items buy/sell reservation information management module provides a web page including a plurality of item buttons, each  
15    of which is linked with a corresponding web page displaying corresponding information related to the each item, wherein the buttons includes "buy or sell basket items listed in stock exchange," "buy or sell basket items registered in KOSDAQ (Korea Securities Dealers Automated Quotations)," "buy or sell basket items listed  
20    in stock exchange or registered in KOSDAQ," "buy or sell basket of appointed items," "buy or sell basket items classified by grades," "past basket buy or sell transaction data of appointed items," "execution results of past basket buy or sell transaction data of appointed items," and "execution results of all buy or sell  
25    transactions."

38. The stock exchange supporting system of claim 37, wherein



the basket items buy/sell reservation information management module provides a web page including a plurality of input boxes for receiving appointed items to be basket-transacted, buy value amount, client's registered number, client's name, and password, and estimates reserved  
5 buy value amount for each item by dividing the buy value amount by number of the appointed items and reserved buy volumes for each item by equally dividing the reserved buy value amount for each item by present stock price of each item.

39. The stock exchange supporting system of claim 37, wherein the basket items buy/sell reservation information management module provides a web page including a plurality of input boxes for receiving appointed items to be basket-transacted, sell value amount, client's registered number, client's name, and password when one of the item  
15 buttons of "sell basket items listed in stock exchange," "sell basket items registered in KOSDAQ," "sell basket items listed in stock exchange or registered in KOSDAQ" is selected, and registers reserved sell bidding price of each item with the present stock price in case sum of present value amount of appointed items is higher than  
20 total sell value amount which is inputted into the input box provided in the web page.

40. The stock exchange supporting system of claim 39, wherein the basket items buy/sell reservation information management module  
25 further provides the web page with input boxes for receiving count of past basket transaction such that in case the count of past basket transaction is inputted in the corresponding box, the basket items

buy/sell reservation information management module displays, on the web page, transaction time (year, month, day, time) of the past basket transaction at the count, list of items transacted at the past basket transaction of the count, buy price of each item, buy  
5 volumes of each item, and stock holding status.

41. The stock exchange supporting system of claim 37, wherein the basket items buy/sell reservation information management module provides a web page including a plurality of input boxes for receiving  
10 appointed items to be basket-transacted, buy value amount, client's registered number, client's name, and password when the button of "buy basket of appointed items" is selected such that the basket items buy/sell reservation information management module estimates reserved buy value amount per each item by equally dividing buy  
15 value amount by number of the appointed items, further estimates reserved buy volumes per each item by dividing the buy value amount per each item by present stock price per share of each item and registers the reserved buy value amount per each item and the reserved buy volumes as reservation information.

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42. The stock exchange supporting system of claim 37, wherein the basket items buy/sell reservation information management module provides a web page including a plurality of input boxes for receiving count of basket sell transaction, sell value amount, client's  
25 registered number, client's name, and password when the item button of "sell basket of appointed items" is selected, such that in case sell value amount is inputted into an input box to generate a condition

for executing basket sell transaction and sum of present value amount of the appointed items is higher than the sell value amount, the basket items buy/sell reservation information management module regards the present value amount of each of the appointed items  
5 as sell value amount of each item or setting sell value amount of each item using the present stock price of the each item and makes a list of items to be sell basket transacted.

43. The stock exchange supporting system of claim 37, wherein  
10 the basket items buy/sell reservation information management module provides a web page including input boxes for receiving investment amount and grade on each item, a launch button for selecting market type (stock exchange/KOSDAQ/stock exchange or KOSDAQ), and a launch button for selecting buy or sell when the item button "buy/sell  
15 basket items classified by grades" is selected, whereby after the investment amount and grade on each item are inputted into the input boxes, the basket items buy/sell reservation information management module divides the investment amount in response to the grades inputted into the input boxes and registers the divided investment amount  
20 of each item as reservation information for buy or sell basket items classified by grades.

44. The stock exchange supporting system of claim 37, wherein the basket items buy/sell reservation information management module  
25 provides a web page including input boxes for receiving client's registered number, client's name, password, count of past basket buy transaction when the item button "past basket buy transaction

data" is selected, such that in case the count of past basket buy transaction is inputted into the input window, a new webpage displaying past basket buy transaction data is presented on the client terminal, the past basket buy transaction data including the following  
5 information: codes of items, titles of items, holding status, volumes of each item, buy price per share of each item, present stock price per share of each item, yield of each item, buy value amount of each item, present value amount of each item estimated by the present stock price, profit or loss value amount of each item, average yield,  
10 sum of buy value amount on the past basket buy transaction, sum of profit/loss value amount, and sum of present value amount.

45. The stock exchange supporting system of claim 44, wherein the basket items buy/sell reservation information management module  
15 provides the web page with input boxes for receiving sum of buy value amount (investment amount), yield average and/or sum of profit/loss value amount each of which is used as a reference value to generate a condition for executing basket items buy transaction.

20 46. The stock exchange supporting system of claim 45, wherein the basket items buy/sell reservation information management module generates and registers a condition for executing basket buy transaction when the sum of buy value amount is inputted into one of the input boxes and the sum of present value amount of items  
25 listed in the basket of past basket transaction data is lower than the inputted sum of buy value amount.

47. The stock exchange supporting system of claim 45, wherein the basket items buy/sell reservation information management module generates and registers a condition for executing basket buy transaction when the yield average is inputted into one of the input  
5 boxes and the yield average of the past basket buy transaction is about same to the newly inputted yield average.

48. The stock exchange supporting system of claim 45, wherein the basket items buy/sell reservation information management module  
10 generates and registers a condition for executing basket buy transaction when the sum of profit/loss value amount is inputted into one of the input boxes and the sum of profit/loss value amount of the past basket buy transaction is about same to the newly inputted profit/loss value amount.

49. The stock exchange supporting system of claim 37, wherein the basket items buy/sell reservation information management module provides a web page including input boxes for receiving client's registered number, client's name, password, count of past basket  
20 sell transaction when the item button "past basket sell transaction data" is selected, wherein in case the count of past basket sell transaction is inputted into the input box, a new web page displaying past basket sell transaction data table is presented on the client terminal, wherein the past basket sell transaction data table includes  
25 the following information: code of each item, title of each item, holding status, volumes of each item, sell price per share of each item, present stock price per share of each item, yield over the

present stock price of each item, sell value amount of each item,  
present value amount of each item, profit/loss value amount of each  
item over the present value amount, average yield, sum of sell value  
amount, sum of profit/loss value amount, and sum of present value  
5 amount.

50. The stock exchange supporting system of claim 49, wherein  
the basket items buy/sell reservation information management module  
provides the web page with further input boxes for receiving sum  
10 of buy value amount (investment amount), yield average and/or sum  
of profit/loss value amount each of which is used as a reference  
value to generate a condition for executing basket items buy  
transaction.

51. The stock exchange supporting system of claim 50, wherein  
the basket items buy/sell reservation information management module  
generates and registers a condition for executing basket buy  
transaction when the sum of buy value amount is inputted into one  
of the input boxes and the sum of present value amount included  
15 in the past basket buy transaction data table is lower than the  
inputted sum of buy value amount.

52. The stock exchange supporting system of claim 50, wherein  
the basket items buy/sell reservation information management module  
25 generates and registers a condition for executing basket buy  
transaction when yield average is inputted into one of the input  
boxes and the yield average in the past basket buy transaction data

table is about same to the newly inputted yield average.

53. The stock exchange supporting system of claim 45, wherein the basket items buy/sell reservation information management module  
5 generates and registers a condition for executing basket buy transaction when sum of profit/loss value amount is inputted into one of the input boxes and the sum of profit/loss value amount in the past basket buy transaction data table is about same to the newly inputted sum of profit/loss value amount.

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54. The stock exchange supporting system of claim 9, wherein the investment information register and management module comprises a discretionary investment reservation information management module providing at least one web page which includes input boxes for receiving  
15 client identification information, password, client's registered number, code or title of item to be transacted, and volumes and value amount to be transacted; and supporting registration reservation and reserved transaction in accordance with investment information from the client terminal through the web page; and updating the  
20 stock transaction reservation information in response to the execution results of stock transaction.

55. The stock exchange supporting system of claim 54, wherein the discretionary investment reservation information management  
25 module provides a plurality of launch buttons each of which is linked with a web page having information corresponding to each of launch buttons, wherein each launch button has a command instructing a

specific action such as register individual investment, register group investment, retrieve individual investment, retrieve group investment, print list of items invested by an individual, print list of items invested by a group, display list of clients by a group, display list of all clients, register investment fund, and retrieve investment fund.

56. The stock exchange supporting system of claim 55, wherein the discretionary investment reservation information module includes individual investment register supporting module and operates the individual investment register supporting module when the launch button of register individual investment is selected, the individual investment register supporting module providing a web page having a plurality of input boxes for receiving code and title of item, maximum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, maximum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes and display boxes for displaying buy value amount, sell value amount, present cash, and balance.

57. The stock exchange supporting system of claim 56, wherein the individual investment register supporting module further provides the web page with a launch button of graphic information linked with a web page showing overhanging supply or daily/monthly item price changes, an input boxes for receiving reference dates to set



corresponding period, and display frames for displaying highest, lowest, and present stock prices during the period.

58. The stock exchange supporting system of claim 55, wherein  
5 the discretionary investment reservation information module includes  
a group investment register supporting module and operates the group  
investment register supporting module when the launch button of  
register group investment is selected, the group investment register  
supporting module providing a web page having a plurality of input  
10 boxes for receiving group name, ESN (electronic serial number) of  
pager, code number and title of item, maximum reserved buy bidding  
price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding  
price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, maximum  
reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, minimum  
15 reserved sell price at 1-n<sup>th</sup> count of sell transaction, and reserved  
sell volumes; and display boxes for displaying sum of buy volumes,  
sum of sell volumes, investment amount, balance, wherein if the  
group name is inputted into the corresponding input box the web  
page further displays ESN, client's registered number, list of clients  
20 belong to the group.

59. The stock exchange supporting system of claim 58, the group  
investment register supporting module further provides the web page  
with a plurality of display boxes for displaying sum of reserved  
25 buy volumes at first count of buy transaction, sum of reserved sell  
volumes at first count of sell transaction, sum of investment amount  
of which clients reserved to buy items at the first count of buy

transaction, and present cash amount.

60. The stock exchange supporting system of claim 55, wherein the discretionary investment reservation information management module includes an individual investment query supporting module and drives the individual investment query supporting module when the launch button of retrieve individual investment is selected, in which the individual investment query supporting module provides a web page having a plurality of input boxes for receiving client's registered number or client's name, and display boxes for displaying client's name, client's registered number, pager number, code and title of item on which transaction reservation is made by client and transacted, maximum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, execution results of the 1-n<sup>th</sup> count of buy transaction, maximum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell bidding price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sup>th</sup> count of sell transaction.

61. The stock exchange supporting system of claim 55, wherein the discretionary investment reservation information management module includes a group investment query supporting module and operates the group investment query supporting module when the launch button of retrieve group investment is selected, the group investment query supporting module providing a web page having an input box for receiving a group name and a plurality of display boxes for

displaying ESN of pager, code and name of item on which transaction reservation is made and transacted, maximum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, minimum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, reserved buy volumes, execution results of the 1-n<sub>th</sub> count of buy transaction, maximum reserved sell price at 1-n<sub>th</sub> count of sell transaction, minimum reserved sell bidding price at 1-n<sub>th</sub> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sub>th</sub> count of sell transaction.

62. The stock exchange supporting system of claim 54, wherein the investment information register and management module comprises an investment fund management module, an investment consultancy information management module, a recommended items management module, and basket items buy/sell reservation information management module,

wherein the investment fund management module provides a web page and manages discretionary investment in response to information inputted through the web page, the web page having a plurality of input boxes, a plurality of display boxes, and a plurality of launch buttons, the input boxes receiving fund name, items to be transacted through the fund, count of transaction, and reference date to set the period of transaction, the display boxes displaying highest, lowest, and present stock prices during the period, and the launch buttons including graphic information and yield estimation, of which the launch button of graphic information is linked with a web page showing graphic information of daily/monthly stock price changes and overhanging supply during the period and the launch button of yield estimation is linked with a web page showing yield information

during the period;

the investment consultancy information management module provides a web page having stock price information such as buy or sell recommendation, buy bidding price or sell bidding price and  
5 buy volumes and sell volumes and manages the stock price information shown on the web page;

the recommended items management module provides a web page including a plurality of item buttons, each of which is linked with a web page contains corresponding information related to each item  
10 so as to guide the clients with items which are worth investing; and

the basket items buy/sell reservation information management module registers and manages items to be basket-transacted by receiving code or title of the items, volumes and value amount.  
15

63. The stock exchange supporting system of claim 62, the investment fund management module provides the yield information such as percentage of return on investment amount when the launch button of yield estimation is selected, wherein in case the title  
20 or code of the item is inputted into the input box included the web page linked with the launch button of yield estimation, yield information of each item such as investment amount on the item, yield on the item, share holding status, balance is presented on the web page.

25

64. The stock exchange supporting system of claim 62, wherein the recommended items management module provides a web page including

aplurality of item buttons, each of which is linked with a corresponding web page to display corresponding information such as list of items highly undervalued, list of items ranked high in PER, list of items having high retained earnings, list of items ranked high in average value of numerical order number in each item of highly undervalued/high PER/high retained earnings, list of items recorded consecutive daily permissible high price, list of items having highly advanced rate in short term, list of items recorded price at low during a predetermined period, list of items recorded low advanced rate, list of items having high gain over equity, list of items recorded price at new high, and list of items recorded highly advanced rate between lowest price and highest price.

65. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying list of items highly undervalued by estimating average PBR (price book value ratio) which means average ratio of stock price over book value for recent years when the highly undervalued items button is selected.

66. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying list of items ranked high in PER by estimating percentage of average EPS for recent years over present stock price when the button of list of items ranked high PER is selected.

67. The stock exchange supporting system of claim 64, wherein

the recommended items management module provides a web page displaying list of items ranked high in percentage of excessive retained earning value over total equity (present stock price x capital / face value) when the button of list of items ranked high in retained earnings  
5 is selected.

68. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying list of items ranked high in average value of numerical order number  
10 in each items of undervalued/PER/retained earnings when the button of undervalued/PER/retained earning is selected

69. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying  
15 list of items recorded the consecutive daily permissible high price more than two times when the item button of list of items recorded consecutive permissible high price is selected.

70. The stock exchange supporting system of claim 64, wherein  
20 the recommended items management module provides a web page displaying list of items recorded high advanced rate from the moving mean price line during predetermined period when the button of list of items having high advanced rate in short term is selected.

25 71. The stock exchange supporting system of claim 64, wherein the recommended items management module retrieves items recorded price at low during the predetermined period, provides buy information

(buy point) of  $n_{th}$  count, the buy point being price level advanced at a certain rate from the price at low, and then provides sell information (sell point) of  $n_{th}$  count in which the sell point is price level advanced at a certain rate from the buy point, when  
5 the button of list of items recorded price at low is selected.

72. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying list of items recorded lowest advanced rate from price at low during  
10 predetermined period which is set by the client inputting a reference date (year, month, date) when the button of list of items recorded low advanced rate is selected.

73. The stock exchange supporting system of claim 64, wherein  
15 the recommended items management module provides a web page displaying list of items ranked high in percentage of net profit value per share over equity when the button of list of items having high gain over equity is selected and semi-annual revenue or average revenue per year is set.

20

74. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying list of items recorded price at new high during a predetermined period from a reference date to the present when the button of list  
25 of items recorded price at new high is selected and the reference date (year, month, and data) is inputted by the client.

75. The stock exchange supporting system of claim 64, wherein the recommended items management module provides a web page displaying list of items ranked high in advanced rate of item price from the lowest price level when the button of "list of items recorded high  
5 advanced rate from lowest price level to highest price level" is selected.

76. The stock exchange supporting system of claim 62, wherein the basket items buy/sell reservation information management module  
10 provides a web page including a plurality of item buttons, each of which is linked with a corresponding web page displaying corresponding information related to the each item, wherein the buttons includes "buy or sell basket items listed in stock exchange," "buy or sell basket items registered in KOSDAQ (Korea Securities  
15 Dealers Automated Quotations)" "buy or sell basket items listed in stock exchange or registered in KOSDAQ," "buy or sell basket of appointed items," "buy or sell basket items classified by grades," "past buy or basket sell transaction data of appointed items," "execution results of past basket buy or sell transaction data of  
20 appointed items," and "execution results of all buy or sell transactions".

77. The stock exchange supporting system of claim 76, wherein the basket items buy/sell reservation information management module  
25 provides a web page including a plurality of input boxes for receiving appointed items to be basket-transacted, buy value amount, client's registered number, client's name, and password, estimates reserved



buy value amount per each item by equally dividing the buy value amount by number of the appointed items, further estimates reserved buy volumes per each item by dividing the buy value amount per each item by the present stock price of the each item and registers the reserved buy value amount per each item and the reserved buy volumes as reservation information when one of the item buttons of "buy basket items listed in stock exchange," "buy basket items registered in KOSDAQ," "buy basket items listed in stock exchange or registered in KOSDAQ" is selected.

78. The stock exchange supporting system of claim 76, wherein the basket items buy/sell reservation information management module provides a web page including a plurality of input boxes for receiving appointed items to be basket transacted, sell value amount, client's registered number, client's name, and password when one of the item buttons of "sell basket items listed in stock exchange," "sell basket items registered in KOSDAQ," "sell basket items listed in stock exchange or registered in KOSDAQ" is selected, and registers reservation sell price of each item with the present stock price in case sum of present value amount of appointed items is higher than total sell value amount which is inputted into the input box provided in the web page.

79. The stock exchange supporting system of claim 78, wherein the basket items buy/sell reservation information management module further provides the web page with further input boxes for receiving count of past basket transaction, in case the count of past basket

transaction is inputted the basket items buy/sell reservation information management module displays on the web page transaction time (year, month, day, time) of the past basket transaction at the count, list of items transacted at the past basket transaction  
5 of the count, buy bidding price of each item, buy volumes of each item, and stock holding status.

80. The stock exchange supporting system of claim 76, wherein the basket items buy/sell reservation information management module  
10 provides a web page including a plurality of input boxes for receiving appointed items to be basket-transacted, buy value amount, client's registered number, client's name, and password when the button of "buy basket of appointed items" is selected, estimates reserved buy value amount per each item by equally dividing buy value amount  
15 by number of the appointed items, further estimates reserved buy volumes per each item by dividing the reserved buy value amount per each item by present stock price of the each item and registers the reserved buy value amount per each item and the reserved buy volumes as reservation information.

20

81. The stock exchange supporting system of claim 76, wherein the basket items buy/sell reservation information management module provides a web page including a plurality of input boxes for receiving count of basket sell transaction, sell value amount, client's  
25 registered number, client's name, and password when the button of "sell basket of appointed items" is selected, in case sell value amount is inputted into an input box so as to generate a condition

for executing basket sell transaction and sum of present value amount of appointed items is higher than the sell value amount, the basket items buy/sell reservation information management module regards the present value amount of the each appointed items as sell value amount of each item or estimates sell value amount of each item based on the present stock price, and makes a list of items to be sell basket transacted.

82. The stock exchange supporting system of claim 76, wherein the basket items buy/sell reservation information management module provides a web page including input boxes for receiving investment amount and grade on each item, a launch button for selecting market type (stock exchange/KOSDAQ/stock exchange or KOSDAQ), and a launch button for selecting buy or sell when the item button "buy/sell basket items classified by grades" is selected, whereby after the investment amount and grade on each items are inputted into the input boxes, the basket items buy/sell reservation information management module divides the investment amount in response to the grades inputted into the input box and registers the divided investment amount of each item as reservation information for buy or sell basket transaction.

83. The stock exchange supporting system of claim 76, wherein the basket items buy/sell reservation information management module provides a web page including input boxes for receiving client's registered number, client's name, password, count of past basket buy transaction when the item button "past basket buy transaction

data" is selected, wherein in case the count of past basket buy transaction is inputted into the input box, a new web page displaying past basket buy transaction data table is presented on the client terminal, wherein the past basket buy transaction data table includes the following information: code of item, title of item, holding status, volumes, buy bidding price per share, present stock price per share, yield of each item against the present stock price, buy value amount of each item, present value amount of each item estimated by the present stock price, profit or loss value amount of each item against the present value amount of each item, yield average of all items, sum of buy value amount of all items, sum of profit/loss value amount of all items, and sum of present value amount of all items.

84. The stock exchange supporting system of claim 83, wherein the basket items buy/sell reservation information management module provides to the web page with further input boxes for receiving sum of buy value amount (investment amount), yield average and/or sum of profit/loss value amount each of which is used as a reference value to generate a condition for executing basket items buy transaction.

85. The stock exchange supporting system of claim 84, wherein the basket items buy/sell reservation information management module generates and registers a condition for executing basket buy transaction when the buy value amount (investment amount) is inputted into one of the input boxes and the sum of present value amount

of all items listed in the basket of past basket transaction data table is lower than the inputted buy value amount.

86. The stock exchange supporting system of claim 84, wherein  
5 the basket items buy/sell reservation information management module generates and registers a condition for executing basket buy transaction when the yield average is inputted into one of the input boxes and the yield average in the past basket buy transaction data table is about same with the newly inputted yield average.

10 87. The stock exchange supporting system of claim 84, wherein the basket items buy/sell reservation information management module generates and registers a condition for executing basket items buy transaction when the sum of profit/loss value amount is inputted  
15 into one of the input boxes and the sum of profit/loss value amount in the past basket buy transaction data table is about same to the newly inputted profit/loss value amount.

88. The stock exchange supporting system of claim 76, wherein  
20 the basket items buy/sell reservation information management module provides a web page including input boxes for receiving client's registered number, client's name, password, count of past basket sell transaction when the item button "past basket sell transaction data" is selected, wherein in case the count of past basket sell  
25 transaction is inputted into the input box, a new web page displaying past basket sell transaction data table is presented on the client terminal, wherein the past basket sell transaction data includes

the following items: code of item, title of item, holding status, volumes, sell price per share, present stock price per share, yield of each item over the present stock price, sell value amount of each item, present value amount of each item, profit/loss value amount of each item against the present value amount, yield average, sum of sell value amount of all items, sum of profit/loss value amount of all items, and sum of present value amount of all items listed in the past basket transaction data table.

89. The stock exchange supporting system of claim 88, wherein the basket items buy/sell reservation information management module provides to the web page with further input boxes for receiving sum of buy value amount (investment amount), yield average and/or sum of profit/loss value amount each of which is used as a reference value to generate a condition for executing basket items buy transaction.

90. The stock exchange supporting system of claim 89, wherein the basket items buy/sell reservation information management module generates and registers a condition for executing basket items buy transaction when the buy value is inputted into one of the input boxes and the sum of present value amount of all items listed in the past basket transaction data table is lower than the inputted buy value amount.

91. The stock exchange supporting system of claim 89, wherein the basket items buy/sell reservation information management module

generates and registers a condition for executing basket items buy transaction when yield average is inputted into one of the input boxes and the yield average in the past basket buy transaction data table is about same to the newly inputted yield average.

5

92. The stock exchange supporting system of claim 89, wherein the basket items buy/sell reservation information management module generates and registers a condition for executing basket items buy transaction when sum of profit/loss value amount is inputted into one of the input boxes and the sum of profit/loss value amount in the past basket buy transaction data table is about same to the newly inputted sum of profit/loss value amount.

93. A method of supporting stock exchange using a data processing apparatus which is connected to a client terminal to receive client's ID information and stock transaction reservation information and a mainframe computer of stock market to receive real time stock transaction information through communication network respectively, comprising the steps of:

(a) checking a market condition by comparing the stock transaction reservation information registered in advance with the real time stock transaction information received from the mainframe computer of stock market and determining whether the market condition is adequate to execute stock transaction of an individual item or basket items in accordance with investment type and condition predetermined by the registered stock transaction reservation information;

(b) post-treating to send a transaction execution order to the mainframe computer of stock market to execute the stock transaction or to provide at least one client with present stock price information in response to the results of confirmation whether the client is registered discretionary investment or investment consultancy; and

(d) after the stock market being closed on that day when the stock transaction reservation is made, checking whether stock transaction is completely executed in accordance with the registered stock transaction reservation information, if not, re-registering remained part of the stock transaction reservation information which is remained being not transacted as new stock transaction reservation information on a next stock market opening day, whereby steps (b) and (d) are repeatedly performed till all stocks registered to be transacted in accordance with the stock transaction reservation information are completely transacted.

94. The method of supporting stock exchange of claim 93 further comprises a step of (c) registering investment information, wherein the step (c) includes steps of receiving from the client terminal the stock transaction reservation information including investment type and condition, and registering the reservation information by separating it into individuals or groups, wherein the stock transaction reservation information includes client's ID information and paging information (terminal addressor pager number, paging time), at least one item to be transacted or consulted, reserved bidding price (buy bidding price range and sell bidding price range), transaction type (individual or basket), count of transactions by



each item, and condition for individual item transaction or basket items transaction.

95. The method of supporting stock exchange of claim 93, wherein  
5 the step (a) includes sub-step of:

(a10-1) checking a stock market opening, retrieving the stock transaction reservation information to confirm whether the stock transaction reservation information is registered on that day and determining the transaction type (individual item buy or sell) from  
10 the stock transaction reservation information,

(a11) in case the transaction type is individual item buy, comparing present stock prices of items registered in the stock transaction reservation information with the range of reserved buy bidding prices, and setting a condition to execute individual item  
15 buy transaction when the range of reserved buy bidding price (from maximum buy bidding price to minimum buy bidding price) is the same as or higher than the present stock prices, and

(a12) in case the transaction type is individual item sell, comparing present stock prices of items registered in the stock transaction reservation information with the range of reserved sell bidding prices, and setting a condition to execute individual item  
20 sell transaction when the range of reserved sell bidding price range (from minimum sell price to maximum sell price) is the same with or lower than the present stock prices.

25

96. The method of supporting stock exchange of claim 93, wherein the step (a) includes a sub-step of;

(a10-2) checking a stock market opening, retrieving the stock transaction reservation information to confirm whether the stock transaction reservation information is registered on that day and determining the transaction type (basket items buy or sell) from stock transaction reservation information,

(a13) in case the transaction type is basket items buy, generating at least one market condition to execute the basket items buy transaction by checking present stock prices of items registered in the stock transaction reservation information, comparing the generated market condition with the investment condition which is registered in the stock transaction reservation information, and setting the generated market condition to the investment condition to execute basket items buy transaction when the generated market condition is belong to the registered investment condition, and

(a14) in case the transaction type is basket items sell, generating at least one market condition to execute the basket items sell transaction by checking present stock prices of items registered in the stock transaction reservation information, comparing the generated market condition with the investment condition which is registered in the stock transaction reservation information, and setting the generated market condition to the investment condition to execute basket items sell transaction when the generated market condition is belong to the registered investment condition.

97. The method of supporting stock exchange of claim 93, wherein the step (b) comprises:

a step of (b1) executing automatic transaction, wherein in

the step (b1), the transaction execution order is automatically sent to the mainframe computer of stock market with investment condition as registered when the client supporting type is discretionary investment; and

5        a step of (b2) providing stock price information, in the step (b2), a client paging signal is sent to at least one client and stock price information of items registered in the stock transaction reservation information is provided to the client when the client supporting type is investment consultancy.

10

98. The method of supporting stock exchange of claim 97, wherein the step (b1) includes:

15        a step of (b11) executing individual item buy transaction wherein in the step (b11), buy transaction order of items registered in the stock transaction reservation information is sent to the mainframe computer of the stock market with the present stock price and reserved buy volumes, and the stock transaction reservation information is updated in response to the execution results of the buy transaction order; and

20        a step of (b12) executing individual item sell transaction wherein in the step (b12), sell transaction order of items registered in the stock transaction reservation information is sent to the mainframe computer of the stock market with the present stock price and reserved sell volumes, and the stock transaction reservation  
25        information is updated in response to the execution results of the sell transaction order.

99. The method of supporting stock exchange of claim 97, wherein the step (b1) includes:

a step of (b13) executing basket items buy transaction wherein the step(b13) sending basket items buy transaction order of items which registered in each group with the present stock price by each item and reserved buy volumes to the mainframe computer of the stock market, and updating the stock transaction reservation information in response to execution results of the basket items buy transaction execution order; and

a step of (b14) executing basket items sell transaction wherein the step(b14) sending basket items sell transaction order of items registered in each group with the present stock price by each item and reserved sell volumes to the mainframe computer of the stock market, and updating the stock transaction reservation information in response to execution results of the basket items sell transaction execution order.

100. The method of supporting stock exchange of claim 98, wherein the step (b1) further includes:

a step of (b15) executing a sell transaction, wherein the step (b15) executing sell transaction of items that have been bought through the step (b11) or (b13) with reserved sell bidding price of next count transaction which is registered in the stock transaction reservation information after the step (b11) or (b13) is performed;

and

a step of (b16) executing a buy transaction, wherein the step (b16) executing buy transaction of items that have been sold through

the step of (b12) or (b14) with reserved buy bidding price of next count transaction which is registered in the stock transaction reservation information after the step (b12) or (b14) is performed.

5        101. The method of supporting stock exchange of claim 97, wherein the step (b) includes:

10        a step of (b3) sending radio paging information to at least one client on communication network at predetermined paging time by retrieving the client paging information in case the client supporting type is investment consultancy.

102. The method of supporting stock exchange of claim 101, wherein the step (b3) includes:

15        a step of (b31) connecting a web page which is provided by the mobile communication service provider;

      a step of (b32) initializing input boxes installed in the web page and standing by for the client paging information;

      a step of (b33) automatically writing the client paging information into the web page and performing paging operation; and

20        a step of (b34) confirming completion of paging operation, initializing the input boxes installed in the web page and sending confirmation signal of paging completion.

103. The method of supporting stock exchange of claim 102, wherein the step (b33) includes:

      a step of (b331) inputting client pager number in an input box for receiving the client pager number by placing a cursor;

a step of (b332) inputting telephone number to be reached into an input box for receiving the telephone number;

a step of (b333) determining paging mode between numeric/character mode and voice mode by placing a cursor in a message box for receiving message;

a step of (b334) marking paging mode selection box with numeric/character mode, inputting message (code number of item, title of item, present stock price, buy or sell recommendation, buy bidding price or sell bidding price, reserved volumes or holding volumes) with numeric or character into the message box, and performing paging operation with inputted messages; , and repeating the steps from b331 to b334 in case all messages can not be inputted into the message box;

a step of (b335) marking paging mode selection box with voice, inputting message (code of item, title of item, present stock price, buy or sell recommendation, buy bidding price or sell bidding price, reserved volumes or holding volumes) with voice into the message box, and performing paging operation with inputted messages.

104. The method of supporting stock exchange of claim 101, wherein price information received from the mainframe computer of the stock market is sent to the client with the client paging information during the step (b3).

105. The method of supporting stock exchange of claim 103, wherein the client paging information can be classified into several groups and the messages can be sent to each group at intervals during

the step (b3).

106. The method of supporting stock exchange of claim 94, wherein the step (c) includes:

5 a step of (c1) registering a discretionary investment reservation information wherein the step (c1) provides at least one web page which includes input boxes for receiving client identification information, password, client's registered number, code or title of item to be transacted, and volumes and value amount to be transacted,  
10 and supports registration of stock transaction reservation information, reservation of transaction execution, and updating the stock transaction reservation information in response to the execution results of stock transaction.

15 107. The method of supporting stock exchange of claim 106, wherein the web page provided by the step (c1) includes:

a plurality of launch buttons each of which is linked with a web page having corresponding information related to the each of launch buttons, wherein the launch buttons include register  
20 individual investment, register group investment, register investment fund, retrieve individual investment, retrieve group investment, retrieve investment fund, display list of clients by a group, display list of all clients, print list of items invested by an individual, print list of items invested by a group.

25

108. The method of supporting stock exchange of claim 107, wherein the step (c1) includes:

a step of (c11) supporting register of individual investment, in such case that the launch button of register individual investment is selected, the step (c11) provides a web page having a plurality of input boxes for receiving code and title of item, maximum reserved  
5 buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, maximum reserved sell price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes and display boxes for displaying buy value  
10 amount, sell value amount, present cash, balance.

109. The method of supporting stock exchange of claim 108, wherein the web page provided by the step (c11) further includes:  
a launch button of graphic information linked with a web page  
15 containing graphic information of overhanging supply or daily/monthly stock price changes;  
an input box for receiving a reference date to set period from past to present; and  
display boxes for displaying highest price, lowest price, and  
20 present stock price during the period.

110. The method of supporting stock exchange of claim 107, wherein the step (c1) includes:  
a step of (c12) supporting register group investment, in such  
25 case that when the launch button of register group investment is selected, the step (c12) provides a web page having a plurality of input boxes for receiving group name, ESN (electronic serial



number) of pager, code and title of item, maximum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, minimum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, reserved buy volumes, maximum reserved sell price at 1-n<sub>th</sub> count of sell transaction, minimum reservation sell price at 1-n<sub>th</sub> count of sell transaction, and reserved sell volumes and display boxes for displaying sum of buy value amount, sum sell value amount, present cash, balance.

111. The method of supporting stock exchange of claim 110, wherein the webpage provided by step (c12) further includes a plurality of display boxes for displaying sum of reserved buy volumes at first count of buy transaction, sum of reserved sell volumes at first count of sell transaction, sum of investment amount of which clients reserved to buy items at the first count of buy transaction, and present cash amount.

112. The method of supporting stock exchange of claim 107, wherein the step (c1) includes:

a step of (c13) supporting retrieve individual investment, in such case that the launch button of retrieve individual investment is selected, the step (c13) provides a web page having a plurality of input boxes for receiving client's registered number or name, and display boxes for displaying client's name or registered number, pager number, code and title of item on which transaction reservation is made by client and transacted, maximum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, minimum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, reserved buy volumes, execution

results of the 1-n<sub>th</sub> count of buy transaction, maximum reserved sell price at 1-n<sub>th</sub> count of sell transaction, minimum reserved sell price at 1-n<sub>th</sub> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sub>th</sub> count of sell transaction.

5

113. The method of supporting stock exchange of claim 107, wherein the step (c1) includes:

a step of (c14) supporting retrieve group investment, wherein when the launch button of retrieve group investment is selected, 10 the step (c14) provides a web page having an input box for receiving group name and a plurality of display boxes for displaying ESN of pager, code and title of item on which transaction reservation is made and transacted, maximum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, minimum reserved buy bidding price at 15 1-n<sub>th</sub> count of buy transaction, reserved buy volumes, execution results of the 1-n<sub>th</sub> count of buy transaction, maximum reserved sell price at 1-n<sub>th</sub> count of sell transaction, minimum reserved sell price at 1-n<sub>th</sub> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sub>th</sub> count of sell transaction.

20

114. The method of supporting stock exchange of claim 107, wherein the step (c) includes:

a step of (c2) registering investment fund information;  
a step of (c3) registering investment consultancy information;  
25 a step of (c4) registering recommended items management information; and  
a step of (c5) registering basket items buy/sell reservation

information,

wherein the step (c2) provides a web page and manages discretionary investment information in response to information inputted through the web page including a plurality of input boxes, a plurality of display boxes, and a plurality of launch buttons,

wherein the input boxes are installed for receiving fund name, items to be transacted through the fund, count of transaction, and reference date to set a period of transaction, the plurality of display boxes is installed for displaying highest price during the period, lowest price during the period, present stock price, and the plurality of launch buttons includes graphic information and yield estimation,

wherein the launch button of graphic information is linked with a web page showing graphic information of daily/monthly stock price changes and overhanging supply during the period and the launch button of yield estimation is linked with a web page showing yield information during the period,

wherein the step (c3) provides a web page having stock price information such as buy or sell recommendation, buy bidding price or sell price and buy volumes and sell volumes and registers the stock price information shown on the web page as the investment consultancy information;

wherein the step (c4) provides a web page including a plurality of item buttons, each of which is linked with a web page contains corresponding information relating to each item to guide the clients with items which are worth investing,

wherein the step (c5) registers and manages items to be basket

transacted by receiving codes or titles of the items, volumes and value amount.

115. The method of supporting stock exchange of claim 114,  
5 wherein the step (c2) includes:

a step of (c21) providing yield information such as percentage of return on investment amount when the launch button of yield estimation is selected; and

a step of (c22) providing detailed investment and transaction  
10 information such as investment amount of each item, yield of each item, stock holding status, balance when the title or code of the item is inputted into the input box included the web page linked with the launch button of yield estimation.

116. The method of supporting stock exchange of claim 114,  
wherein the step of (c4) registering recommended items management information provides a web page including a plurality of item buttons, each of which is linked with a web page containing corresponding information related to the each item, wherein the item buttons includes  
20 list of items highly undervalued, list of items ranked high in PER, list of items having high retained earnings, list of items ranked high in average value of numerical order number in each item of undervalued/PER/retained earnings, list of items recorded consecutive permissible high price, list of items having high advanced  
25 rate in short term, list of items recorded price at low during a predetermined period, list of items recorded low advanced rate, list of items having high gain over equity, list of items recorded

price at new high, and list of items recorded high advanced rate between lowest price and highest price during a period.

117. The method of supporting stock exchange of claim 116,  
5 wherein the step of (c4) registering recommended items management information provides a web page displaying list of items highly undervalued by estimating PBR (price book value ratio) which means ratio of stock price over book value when the item button of list of items highly undervalued is selected.

118. The method of supporting stock exchange of claim 116,  
wherein the step of (c4) registering recommended items management information provides a web page displaying list of items ranked high in PER (price earnings ratio) by estimating percentage of average  
15 EPS (earning per share) for recent several years over present stock price when the item button of list of items ranked high in PER is selected.

119. The method of supporting stock exchange of claim 116,  
20 wherein the step of (c4) registering recommended items management information provides a web page displaying list of items ranked high in percentage of retained earnings over total equity (present stock price x capital / par value) when the item button of retained earnings is selected.

120. The method of supporting stock exchange of claim 117,  
wherein the step of (c4) registering recommended items management

information provides a web page displaying list of items ranked high in average value of numerical order number in each items of highly undervalued, high PER and high retained earnings when the item button undervalued/PER/retained earnings is selected

5

121. The method of supporting stock exchange of claim 117, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items recorded the consecutive daily permissible high price more than two times when the item button of list of items recorded consecutive permissible high price is selected.

10

122. The method of supporting stock exchange of claim 117, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items recorded high advanced rate from the moving mean price line for predetermined time period when the item button of list of items having high advanced rate in short term is selected.

15

123. The method of supporting stock exchange of claim 116, wherein the step of (c4) registering recommended items management information retrieves items recorded price at low for the predetermined time period, provides buy information (buy point) in which the buy point is a price level advanced at a certain rate from the price at low, and then provides sell information (sell point) in which the sell point is price level advanced at a certain rate from the buy point when the item button of list of items recorded

20

25

price at low is selected.

124. The method of supporting stock exchange of claim 116,  
wherein the step of (c4) registering recommended items management  
5 information provides a web page displaying list of items recorded  
lowest advanced rate from price at low for predetermined period  
which is set by the client by inputting a reference date (year,  
month, date) when the item button of list of items recorded low  
advanced rate is selected.

125. The method of supporting stock exchange of claim 116,  
wherein the step of (c4) registering recommended items management  
information provides a web page displaying list of items ranked  
high in percentage of net profit value per item over equity when  
15 the item button of list of items having high gain over equity is  
selected.

126. The method of supporting stock exchange of claim 116,  
wherein the step of (c4) registering recommended items management  
20 information provides a web page displaying list of items recorded  
price at new high during a period from a reference date to the present  
when the item button of list of items recorded price at new high  
is selected and the reference date (year, month, and day) is inputted  
by the client.

127. The method of supporting stock exchange of claim 116,  
wherein the step of (c4) registering recommended items management

information provides a web page displaying list of items ranked high in advanced rate of item price from the lowest price level when the item button list of items recorded high advanced rate from lowest price level to highest price level is selected.

5

128. The method of supporting stock exchange of claim 114, wherein the step of (c5) registering basket items buy/sell reservation information provides a web page including a plurality of item buttons, each of which is linked with a corresponding web page to display  
10 corresponding information related to the each item, wherein the item buttons includes "buy or sell basket items listed in stock exchange", "buy or sell basket items registered in KOSDAQ (Korea Securities Dealers Automated Quotations)", "buy or sell basket items listed in stock exchange or registered in KOSDAQ", "buy or sell  
15 basket of appointed items", "buy or sell basket items classified by grades", "past basket items buy or sell transaction data of appointed items", "execution results of past basket items buy or sell transaction data of appointed items", and "execution results of all buy or sell transactions".

20

129. The method of supporting stock exchange of claim 128, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c511) providing a web page including a plurality  
25 of input boxes for receiving appointed items to be basket transacted, buy value amount, client's registered number, client's name, and password; and



a step of (c512) estimating reserved buy value amount per each item by equally dividing the buy value amount by number of the appointed items, further estimating reserved buy volumes per each item by dividing the buy value amount per each item by price per share of the each item and registering the reserved buy value amount per each item and the reserved buy volumes as reservation information when one of the item buttons of "buy basket items listed in stock exchange," "buy basket items registered in KOSDAQ," "buy basket items listed in stock exchange or registered in KOSDAQ" is selected.

130. The method of supporting stock exchange of claim 128, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c513) providing a web page including a plurality of input boxes for receiving appointed items to be basket transacted, sell value amount, client's registered number, client's name, and password when one of the item buttons of "sell basket items listed in stock exchange," "sell basket items registered in KOSDAQ," "sell basket items listed in stock exchange or registered in KOSDAQ" is selected; and

a step of (c514) registering reserved sell price of each item with the present stock price in case sum of present value amount of appointed items is higher than sell value amount inputted into the input box provided in the web page.

131. The method of supporting stock exchange of claim 130, wherein the web page further includes input boxes for receiving

count of past basket items transaction and stock holding status table showing transaction time (year, month, day, time) of the past basket items transaction at the count which is inputted into the input box for receiving count of past basket items transaction,  
5 list of items transacted at the count of past basket items transaction, transacted price of each item, transacted volumes of each item, transacted value amount, present value amount.

132. The method of supporting stock exchange of claim 128,  
10 wherein the step of (c5) registering basket items buy/sell reservation information includes a step of (c515) providing a web page including a plurality of input boxes for receiving count of buy transaction, buy value amount, client's registered number, client's name, and password after the item buttons of "buy basket of appointed items"  
15 is selected, and a step of (c516) estimating reserved buy value amount per each item by equally dividing the buy value amount by number of the appointed items, and further estimating reserved buy volumes per each item by dividing the buy value amount per each item by present stock price per share of the each item and registering  
20 the reserved buy value amount per each item and the reserved buy volumes as reservation information.

133. The method of supporting stock exchange of claim 128, wherein the step of (c5) registering basket items buy/sell reservation  
25 information includes:

a step of (c517) providing a web page including a plurality of input boxes for receiving count of sell transaction, sell value

amount, client's registered number, client's name, and password after the item buttons of "sell basket of appointed items" is selected; and

a step of (c518) setting the present value amount of the appointed items as sell value amount of each item or making a list of items to be sell basket transacted when sell value amount is inputted into the input boxes of the web page and sum of present value amount of appointed items is higher than the sell value amount.

134. The method of supporting stock exchange of claim 128, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c519) providing a web page including input boxes for receiving investment amount and grade on each item, a launch button for selecting market type (stock exchange/KOSDAQ/stock exchange or KOSDAQ), and a launch button for selecting buy or sell when the item button "buy/sell basket items classified by grades" is selected;; and

a step of (c520) dividing investment amount in response to a grade inputted into the input box and registering the divided investment amount of each item as reservation information for buy or sell basket items classified by grades after the investment amount and grade on each items are inputted into the input boxes.

135. The method of supporting stock exchange of claim 128, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c521) providing a web page including input boxes for receiving client's registered number, client's name, password, count of past basket items buy transaction when the item button "past basket items buy transaction data" is selected; and

5 a step of (c522) providing a past basket items buy transaction data table including code, title of item, holding status of the each item, volumes, buy bidding price per item, present stock price per item, yield, buy value amount of each item, present value amount of each item, profit or loss value amount of each item, average  
10 yield, sum of buy value amount of items listed in the past basket items buy transaction data table, sum of profit/loss value amount of the items, and sum of present value amount of items.

136. The method of supporting stock exchange of claim 135,  
15 wherein the web page further includes input boxes for receiving sum of total buy value amount (investment amount), yield average or sum of profit/loss value amount each of which is used as a reference value to generate a condition for executing basket items buy transaction, wherein the step of (c5) registering basket items  
20 buy/sell reservation information further includes a step of (C523) selectively registering a condition for executing basket buy transaction in response to the total buy value amount, the yield average and the sum of profit/loss value amount each of which is inputted into the input boxes.

137. The method of supporting stock exchange of claim 136, wherein the step of (523) registering a condition for executing

basket items buy transaction sets a status which the sum of present value amount in the past basket items buy transaction data table is lower than the total value amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

138. The method of supporting stock exchange of claim 136, wherein the step of (523) registering a condition for executing basket items buy transaction sets a status which the yield average in the past basket items buy transaction data table, the yield average being estimated based on present stock prices, is about the same as the yield average inputted into the input box of the web page to the condition for executing basket items buy transaction.

139. The method of supporting stock exchange of claim 136, wherein the step of (523) registering a condition for executing basket items buy transaction sets a status which the sum of profit/loss value amount in the past basket items buy transaction data table, the sum of profit/loss value amount being estimated based on present stock prices, is about the same as the sum of profit/loss value amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

140. The method of supporting stock exchange of claim 128, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c525) providing a web page including input boxes

for receiving client's registered number, client's name, password,  
count of past basket items sell transaction when the item button  
"past basket items sell transaction data" is selected; and

a step of (c526) providing a past basket items sell transaction  
5 data table including codes and titles of items, holding status of  
each item, volumes of each item, sell price per share of each item,  
present stock price per share of each item, yield over the present  
stock price, sell value amount of each item, profit/loss value amount  
of each item over the present value amount, average yield, sum of  
10 sell value amount of the items listed in the past basket items sell  
transaction data table, sum of profit/loss value amount of the items,  
and sum of present value amount of the items.

141. The method of supporting stock exchange of claim 140,  
15 wherein the web page further provides a plurality of input boxes  
for receiving total buy value amount, yield average, and profit/loss  
value amount which is used as a reference values to generate a condition  
for executing basket items buy transaction of appointed items, the  
step of (c5) registering basket items buy/sell reservation information  
20 further includes a step of (C527) selectively registering a condition  
for executing basket items buy transaction in response to total  
buy value amount, yield average and profit/loss value amount each  
of which is inputted into the boxes.

25 142. The method of supporting stock exchange of claim 141,  
wherein the step of (527) selectively registering a condition for  
executing basket items buy transaction sets a status which sum of

present value amount of items listed in the past basket items sell transaction data table is lower than the total buy value amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

5

143. The method of supporting stock exchange of claim 141, wherein the step of (527) registering a condition for executing basket items buy transaction sets a status which the yield average in the past basket items buy transaction data table, the yield average  
10 being estimated based on present stock prices, is about the same as the yield average inputted into the input box of the web page to the condition for executing basket buy transaction.

144. The method of supporting stock exchange of claim 141,  
15 wherein the step of (527) registering a condition for executing basket items buy transaction sets a status which the sum of profit/loss value amount in the past basket items buy transaction data table, the sum of profit/loss value amount being estimated based on present stock prices, is about the same as the sum of profit/loss value  
20 amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

145. A storage medium storing a stock exchange supporting program for implementing a method of supporting stock exchange using a data  
25 processing apparatus which is connected to a client terminal to receive client's ID information and stock transaction reservation information and a mainframe computer of stock market to receive

real time stock transaction information through communication network respectively, comprising the steps of:

(a) checking a market condition by comparing the stock transaction reservation information registered in advance with the real time stock transaction information received from the mainframe computer of stock market and determining whether the market condition is adequate to execute stock transaction of an individual item or basket items in accordance with investment type and condition predetermined by the registered stock transaction reservation information;

(b) post-treating to send a transaction execution order to the mainframe computer of stock market to execute the stock transaction or to provide at least one client with present stock price information in response to the results of confirmation whether the client is registered discretionary investment or investment consultancy; and

(d) after the stock market being closed on that day when the stock transaction reservation is made, checking whether stock transaction is completely executed in accordance with the registered stock transaction reservation information, if not, re-registering remained part of the stock transaction reservation information which is remained being not transacted as new stock transaction reservation information on a next stock market opening day, whereby steps (b) and (d) are repeatedly performed till all stocks registered to be transacted in accordance with the stock transaction reservation information are completely transacted.

146. A storage medium in accordance with claim 145, wherein



the method further comprises a step of (c) registering investment information, wherein the step (c) includes steps of receiving from the client terminal the stock transaction reservation information including investment type and condition, and registering the reservation information by separating it into individuals or groups, wherein the stock transaction reservation information includes client's ID information and paging information (terminal addressor pager number, paging time), at least one item to be transacted or consulted, reserved bidding price (buy bidding price range and sell bidding price range), transaction type (individual or basket), count of transactions by each item, and condition for individual item transaction or basket items transaction.

147. A storage medium in accordance with claim 145, wherein the step (a) includes sub-step of:

(a10-1) checking a stock market opening, retrieving the stock transaction reservation information to confirm whether the stock transaction reservation information is registered on that day and determining the transaction type (individual item buy or sell) from the stock transaction reservation information,

(a11) in case the transaction type is individual item buy, comparing present stock prices of items registered in the stock transaction reservation information with the range of reserved buy bidding prices, and setting a condition to execute individual item buy transaction when the range of reserved buy bidding price (from maximum buy bidding price to minimum buy bidding price) is the same as or higher than the present stock prices, and

(a12) in case the transaction type is individual item sell, comparing present stock prices of items registered in the stock transaction reservation information with the range of reserved sell bidding prices, and setting a condition to execute individual item  
5 sell transaction when the range of reserved sell bidding price range (from minimum sell price to maximum sell price) is the same with or lower than the present stock prices.

148. A storage medium in accordance with claim 145, wherein  
10 the step (a) includes a sub-step of:

(a10-2) checking a stock market opening, retrieving the stock transaction reservation information to confirm whether the stock transaction reservation information is registered on that day and determining the transaction type (basket items buy or sell) from  
15 stock transaction reservation information,

(a13) in case the transaction type is basket items buy, generating at least one market condition to execute the basket items buy transaction by checking present stock prices of items registered in the stock transaction reservation information, comparing the  
20 generated market condition with the investment condition which is registered in the stock transaction reservation information, and setting the generated market condition to the investment condition to execute basket items buy transaction when the generated market condition is belong to the registered investment condition, and

25 (a14) in case the transaction type is basket items sell, generating at least one market condition to execute the basket items sell transaction by checking present stock prices of items registered

in the stock transaction reservation information, comparing the generated market condition with the investment condition which is registered in the stock transaction reservation information, and setting the generated market condition to the investment condition  
5 to execute basket items sell transaction when the generated market condition is belong to the registered investment condition.

149. A storage medium in accordance with claim 145, wherein the step (b) comprises:

10 a step of (b1) executing automatic transaction, wherein in the step (b1), the transaction execution order is automatically sent to the mainframe computer of stock market with investment condition as registered when the client supporting type is discretionary investment; and

15 a step of (b2) providing stock price information, in the step (b2), a client paging signal is sent to at least one client and stock price information of items registered in the stock transaction reservation information is provided to the client when the client supporting type is investment consultancy.

20 150. A storage medium in accordance with claim 149, wherein the step (b1) includes:

a step of (b11) executing individual item buy transaction wherein in the step (b11), buy transaction order of items registered in  
25 the stock transaction reservation information is sent to the mainframe computer of the stock market with the present stock price and reserved buy volumes, and the stock transaction reservation information is

updated in response to the execution results of the buy transaction order; and

a step of (b12) executing individual item sell transaction wherein in the step (b12), sell transaction order of items registered  
5 in the stock transaction reservation information is sent to the mainframe computer of the stock market with the present stock price and reserved sell volumes, and the stock transaction reservation information is updated in response to the execution results of the sell transaction order.

10 151. A storage medium in accordance with claim 149, wherein the step (b1) includes:

a step of (b13) executing basket items buy transaction wherein the step(b13) sending basket items buy transaction order of items  
15 which registered in each group with the present stock price by each item and reserved buy volumes to the mainframe computer of the stock market, and updating the stock transaction reservation information in response to execution results of the basket items buy transaction execution order; and

20 a step of (b14) executing basket items sell transaction wherein the step(b14) sending basket items sell transaction order of items registered in each group with the present stock price by each item and reserved sell volumes to the mainframe computer of the stock market, and updating the stock transaction reservation information  
25 in response to execution results of the basket items sell transaction execution order.

152. A storage medium in accordance with claim 150, wherein the step (b1) further includes:

a step of (b15) executing a sell transaction, wherein the step (b15) executing sell transaction of items that have been bought  
5 through the step (b11) or (b13) with reserved sell bidding price of next count transaction which is registered in the stock transaction reservation information after the step (b11) or (b13) is performed;  
and

a step of (b16) executing a buy transaction, wherein the step  
10 (b16) executing buy transaction of items that have been sold through the step of (b12) or (b14) with reserved buy bidding price of next count transaction which is registered in the stock transaction reservation information after the step (b12) or (b14) is performed.

15 153. A storage medium in accordance with claim 149, wherein the step (b) includes:

a step of (b3) sending radio paging information to at least one client on communication network at predetermined paging time by retrieving the client paging information in case the client  
20 supporting type is investment consultancy.

154. A storage medium in accordance with claim 153, wherein the step (b3) includes:

a step of (b31) connecting a web page which is provided by  
25 the mobile communication service provider;

a step of (b32) initializing input boxes installed in the web page and standing by for the client paging information;

a step of (b33) automatically writing the client paging information into the web page and performing paging operation; and

a step of (b34) confirming completion of paging operation, initializing the input boxes installed in the web page and sending  
5 confirmation signal of paging completion.

155. A storage medium in accordance with claim 154, wherein the step (b33) includes:

a step of (b331) inputting client pager number in an input  
10 box for receiving the client pager number by placing a cursor;

a step of (b332) inputting telephone number to be reached into an input box for receiving the telephone number;

a step of (b333) determining paging mode between numeric/character mode and voice mode by placing a cursor in a message  
15 box for receiving message;

a step of (b334) marking paging mode selection box with numeric/character mode, inputting message (code number of item, title of item, present stock price, buy or sell recommendation, buy bidding price or sell bidding price, reserved volumes or holding  
20 volumes) with numeric or character into the message box, and performing paging operation with inputted messages; , and repeating the steps from b331 to b334 in case all messages can not be inputted into the message box;

a step of (b335) marking paging mode selection box with voice,  
25 inputting message (code of item, title of item, present stock price, buy or sell recommendation, buy bidding price or sell bidding price, reserved volumes or holding volumes) with voice into the message

box, and performing paging operation with inputted messages.

156. A storage medium in accordance with claim 153, wherein price information received from the mainframe computer of the stock market is sent to the client with the client paging information during the step (b3).

157. A storage medium in accordance with claim 155, wherein the client paging information can be classified into several groups and the messages can be sent to each group at intervals during the step (b3).

158. A storage medium in accordance with claim 146, wherein the step (c) includes:

15 a step of (c1) registering a discretionary investment reservation information wherein the step (c1) provides at least one web page which includes input boxes for receiving client identification information, password, client's registered number, code or title of item to be transacted, and volumes and value amount to be transacted, and supports registration of stock transaction reservation information, reservation of transaction execution, and updating the stock transaction reservation information in response to the execution results of stock transaction.

159. A storage medium in accordance with claim 158, wherein the web page provided by the step (c1) includes:

a plurality of launch buttons each of which is linked with

a web page having corresponding information related to the each of launch buttons, wherein the launch buttons include register individual investment, register group investment, register investment fund, retrieve individual investment, retrieve group investment, retrieve investment fund, display list of clients by a group, display list of all clients, print list of items invested by an individual, print list of items invested by a group.

160. A storage medium in accordance with claim 159, wherein the step (c1) includes:

a step of (c11) supporting register of individual investment, in such case that the launch button of register individual investment is selected, the step (c11) provides a web page having a plurality of input boxes for receiving code and title of item, maximum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, maximum reserved sell price at 1-n<sup>th</sup> count of sell transaction, minimum reserved sell price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes and display boxes for displaying buy value amount, sell value amount, present cash, balance.

161. A storage medium in accordance with claim 160, wherein the web page provided by the step (c11) further includes:

a launch button of graphic information linked with a web page containing graphic information of overhanging supply or daily/monthly stock price changes;

an input box for receiving a reference date to set period from



past to present; and

display boxes for displaying highest price, lowest price, and present stock price during the period.

5        162. A storage medium in accordance with claim 159, wherein the step (c1) includes:

10        a step of (c12) supporting register group investment, in such case that when the launch button of register group investment is selected, the step (c12) provides a web page having a plurality of input boxes for receiving group name, ESN (electronic serial number) of pager, code and title of item, maximum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, minimum reserved buy bidding price at 1-n<sup>th</sup> count of buy transaction, reserved buy volumes, maximum reserved sell price at 1-n<sup>th</sup> count of sell transaction, minimum reservation sell price at 1-n<sup>th</sup> count of sell transaction, and reserved sell volumes and display boxes for displaying sum of buy value amount, sum sell value amount, present cash, balance.

15        163. A storage medium in accordance with claim 162, wherein the web page provided by step (c12) further includes a plurality of display boxes for displaying sum of reserved buy volumes at first count of buy transaction, sum of reserved sell volumes at first count of sell transaction, sum of investment amount of which clients reserved to buy items at the first count of buy transaction, and present cash amount.

25        164. A storage medium in accordance with claim 159, wherein

the step (c1) includes:

a step of (c13) supporting retrieve individual investment, in such case that the launch button of retrieve individual investment is selected, the step (c13) provides a web page having a plurality of input boxes for receiving client's registered number or name, and display boxes for displaying client's name or registered number, pager number, code and title of item on which transaction reservation is made by client and transacted, maximum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, minimum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, reserved buy volumes, execution results of the 1-n<sub>th</sub> count of buy transaction, maximum reserved sell price at 1-n<sub>th</sub> count of sell transaction, minimum reserved sell price at 1-n<sub>th</sub> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sub>th</sub> count of sell transaction.

165. A storage medium in accordance with claim 159, wherein the step (c1) includes:

a step of (c14) supporting retrieve group investment, wherein when the launch button of retrieve group investment is selected, the step (c14) provides a web page having an input box for receiving group name and a plurality of display boxes for displaying ESN of pager, code and title of item on which transaction reservation is made and transacted, maximum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, minimum reserved buy bidding price at 1-n<sub>th</sub> count of buy transaction, reserved buy volumes, execution results of the 1-n<sub>th</sub> count of buy transaction, maximum reserved sell price at 1-n<sub>th</sub> count of sell transaction, minimum reserved sell price at

1-n<sub>th</sub> count of sell transaction, and reserved sell volumes, and execution results of 1-n<sub>th</sub> count of sell transaction.

166. A storage medium in accordance with claim 159, wherein  
5 the step (c) includes:

a step of (c2) registering investment fund information;

a step of (c3) registering investment consultancy information;

a step of (c4) registering recommended items management  
information; and

10 a step of (c5) registering basket items buy/sell reservation  
information,

wherein the step (c2) provides a web page and manages  
discretionary investment information in response to information  
inputted through the web page including a plurality of input boxes,

15 a plurality of display boxes, and a plurality of launch buttons,

wherein the input boxes are installed for receiving fund name,  
items to be transacted through the fund, count of transaction, and  
reference date to set a period of transaction, the plurality of  
display boxes is installed for displaying highest price during the  
20 period, lowest price during the period, present stock price, and  
the plurality of launch buttons includes graphic information and  
yield estimation,

wherein the launch button of graphic information is linked  
with a web page showing graphic information of daily/monthly stock  
25 price changes and overhanging supply during the period and the launch  
button of yield estimation is linked with a web page showing yield  
information during the period,

wherein the step (c3) provides a web page having stock price information such as buy or sell recommendation, buy bidding price or sell price and buy volumes and sell volumes and registers the stock price information shown on the web page as the investment  
5 consultancy information;

wherein the step (c4) provides a web page including a plurality of item buttons, each of which is linked with a web page contains corresponding information relating to each item to guide the clients with items which are worth investing,

10 wherein the step (c5) registers and manages items to be basket transacted by receiving codes or titles of the items, volumes and value amount.

167. A storage medium in accordance with claim 166, wherein  
15 the step (c2) includes:

a step of (c21) providing yield information such as percentage of return on investment amount when the launch button of yield estimation is selected; and

a step of (c22) providing detailed investment and transaction  
20 information such as investment amount of each item, yield of each item, stock holding status, balance when the title or code of the item is inputted into the input box included the web page linked with the launch button of yield estimation.

25 168. A storage medium in accordance with claim 166, wherein the step of (c4) registering recommended items management information provides a web page including a plurality of item buttons, each

of which is linked with a web page containing corresponding information related to the each item, wherein the item buttons includes list of items highly undervalued, list of items ranked high in PER, list of items having high retained earnings, list of items ranked high in average value of numerical order number in each item of undervalued/PER/retained earnings, list of items recorded consecutive permissible high price, list of items having high advanced rate in short term, list of items recorded price at low during a predetermined period, list of items recorded low advanced rate, list of items having high gain over equity, list of items recorded price at new high, and list of items recorded high advanced rate between lowest price and highest price during a period.

169. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items highly undervalued by estimating PBR (price book value ratio) which means ratio of stock price over book value when the item button of list of items highly undervalued is selected.

170. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items ranked high in PER (price earnings ratio) by estimating percentage of average EPS (earning per share) for recent several years over present stock price when the item button of list of items ranked high in PER is selected.

171. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items ranked high in percentage  
5 of retained earnings over total equity (present stock price x capital / par value) when the item button of retained earnings is selected.

172. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information  
10 provides a web page displaying list of items ranked high in average value of numerical order number in each items of highly undervalued, high PER and high retained earnings when the item button undervalued/PER/retained earnings is selected

173. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items recorded the consecutive daily permissible high price more than two times  
15 when the item button of list of items recorded consecutive permissible high price is selected.  
20

174. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items recorded high advanced  
25 rate from the moving mean price line for predetermined time period when the item button of list of items having high advanced rate in short term is selected.

175. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information retrieves items recorded price at low for the predetermined time period, provides buy information (buy point) in which the buy point is a price level advanced at a certain rate from the price at low, and then provides sell information (sell point) in which the sell point is price level advanced at a certain rate from the buy point when the item button of list of items recorded price at low is selected.

176. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items recorded lowest advanced rate from price at low for predetermined period which is set by the client by inputting a reference date (year, month, date) when the item button of list of items recorded low advanced rate is selected.

177. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items ranked high in percentage of net profit value per item over equity when the item button of list of items having high gain over equity is selected.

178. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items recorded price at new high during a period from a reference date to the present when the

item button of list of items recorded price at new high is selected and the reference date (year, month, and day) is inputted by the client.

5        179. A storage medium in accordance with claim 168, wherein the step of (c4) registering recommended items management information provides a web page displaying list of items ranked high in advanced rate of item price from the lowest price level when the item button list of items recorded high advanced rate from lowest price level  
10 to highest price level is selected.

180. A storage medium in accordance with claim 166, wherein the step of (c5) registering basket items buy/sell reservation information provides a web page including a plurality of item buttons,  
15 each of which is linked with a corresponding web page to display corresponding information related to the each item, wherein the item buttons includes "buy or sell basket items listed in stock exchange", "buy or sell basket items registered in KOSDAQ (Korea Securities Dealers Automated Quotations)", "buy or sell basket items  
20 listed in stock exchange or registered in KOSDAQ", "buy or sell basket of appointed items", "buy or sell basket items classified by grades", "past basket items buy or sell transaction data of appointed items", "execution results of past basket items buy or sell transaction data of appointed items", and "execution results of all buy or sell  
25 transactions".

181. A storage medium in accordance with claim 180, wherein



the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c511) providing a web page including a plurality of input boxes for receiving appointed items to be basket transacted, buy value amount, client's registered number, client's name, and password; and

a step of (c512) estimating reserved buy value amount per each item by equally dividing the buy value amount by number of the appointed items, further estimating reserved buy volumes per each item by dividing the buy value amount per each item by price per share of the each item and registering the reserved buy value amount per each item and the reserved buy volumes as reservation information when one of the item buttons of "buy basket items listed in stock exchange," "buy basket items registered in KOSDAQ," "buy basket items listed in stock exchange or registered in KOSDAQ" is selected.

182. A storage medium in accordance with claim 180, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c513) providing a web page including a plurality of input boxes for receiving appointed items to be basket transacted, sell value amount, client's registered number, client's name, and password when one of the item buttons of "sell basket items listed in stock exchange," "sell basket items registered in KOSDAQ," "sell basket items listed in stock exchange or registered in KOSDAQ" is selected; and

a step of (c514) registering reserved sell price of each item

with the present stock price in case sum of present value amount of appointed items is higher than sell value amount inputted into the input box provided in the web page.

5        183. A storage medium in accordance with claim 182, wherein the web page further includes input boxes for receiving count of past basket items transaction and stock holding status table showing transaction time (year, month, day, time) of the past basket items transaction at the count which is inputted into the input box for  
10 receiving count of past basket items transaction, list of items transacted at the count of past basket items transaction, transacted price of each item, transacted volumes of each item, transacted value amount, present value amount.

15        184. A storage medium in accordance with claim 180, wherein the step of (c5) registering basket items buy/sell reservation information includes a step of (c515) providing a web page including a plurality of input boxes for receiving count of buy transaction, buy value amount, client's registered number, client's name, and  
20 password after the item buttons of "buy basket of appointed items" is selected, and a step of (c516) estimating reserved buy value amount per each item by equally dividing the buy value amount by number of the appointed items, and further estimating reserved buy volumes per each item by dividing the buy value amount per each  
25 item by present stock price per share of the each item and registering the reserved buy value amount per each item and the reserved buy volumes as reservation information.

185. A storage medium in accordance with claim 180, wherein the step of (c5) registering basket items buy/sell reservation information includes:

5 a step of (c517) providing a web page including a plurality of input boxes for receiving count of sell transaction, sell value amount, client's registered number, client's name, and password after the item buttons of "sell basket of appointed items" is selected; and

10 a step of (c518) setting the present value amount of the appointed items as sell value amount of each item or making a list of items to be sell basket transacted when sell value amount is inputted into the input boxes of the web page and sum of present value amount of appointed items is higher than the sell value amount.

15 186. A storage medium in accordance with claim 180, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c519) providing a web page including input boxes  
20 for receiving investment amount and grade on each item, a launch button for selecting market type (stock exchange/KOSDAQ/stock exchange or KOSDAQ), and a launch button for selecting buy or sell when the item button "buy/sell basket items classified by grades" is selected;, and

25 a step of (c520) dividing investment amount in response to a grade inputted into the input box and registering the divided investment amount of each item as reservation information for buy

or sell basket items classified by grades after the investment amount and grade on each items are inputted into the input boxes.

187. A storage medium in accordance with claim 180, wherein  
5 the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c521) providing a web page including input boxes for receiving client's registered number, client's name, password, count of past basket items buy transaction when the item button  
10 "past basket items buy transaction data" is selected; and

a step of (c522) providing a past basket items buy transaction data table including code, title of item, holding status of the each item, volumes, buy bidding price per item, present stock price per item, yield, buy value amount of each item, present value amount  
15 of each item, profit or loss value amount of each item, average yield, sum of buy value amount of items listed in the past basket items buy transaction data table, sum of profit/loss value amount of the items, and sum of present value amount of items.

20 188. A storage medium in accordance with claim 187, wherein the web page further includes input boxes for receiving sum of total buy value amount (investment amount), yield average or sum of profit/loss value amount each of which is used as a reference value to generate a condition for executing basket items buy transaction,  
25 wherein the step of (c5) registering basket items buy/sell reservation information further includes a step of (C523) selectively registering a condition for executing basket buy transaction in response to

the total buy value amount, the yield average and the sum of profit/loss value amount each of which is inputted into the input boxes.

189. A storage medium in accordance with claim 188, wherein  
5 the step of (523) registering a condition for executing basket items buy transaction sets a status which the sum of present value amount in the past basket items buy transaction data table is lower than the total value amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

10

190. A storage medium in accordance with claim 188, wherein  
the step of (523) registering a condition for executing basket items buy transaction sets a status which the yield average in the past basket items buy transaction data table, the yield average being  
15 estimated based on present stock prices, is about the same as the yield average inputted into the input box of the web page to the condition for executing basket items buy transaction.

191. A storage medium in accordance with claim 188, wherein  
20 the step of (523) registering a condition for executing basket items buy transaction sets a status which the sum of profit/loss value amount in the past basket items buy transaction data table, the sum of profit/loss value amount being estimated based on present stock prices, is about the same as the sum of profit/loss value  
25 amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

192. A storage medium in accordance with claim 180, wherein the step of (c5) registering basket items buy/sell reservation information includes:

a step of (c525) providing a web page including input boxes  
5 for receiving client's registered number, client's name, password, count of past basket items sell transaction when the item button "past basket items sell transaction data" is selected; and

a step of (c526) providing a past basket items sell transaction data table including codes and titles of items, holding status of  
10 each item, volumes of each item, sell price per share of each item, present stock price per share of each item, yield over the present stock price, sell value amount of each item, profit/loss value amount of each item over the present value amount, average yield, sum of sell value amount of the items listed in the past basket items sell  
15 transaction data table, sum of profit/loss value amount of the items, and sum of present value amount of the items.

193. A storage medium in accordance with claim 192, wherein the web page further provides a plurality of input boxes for receiving  
20 total buy value amount, yield average, and profit/loss value amount which is used as a reference values to generate a condition for executing basket items buy transaction of appointed items, the step of (c5) registering basket items buy/sell reservation information further includes a step of (C527) selectively registering a condition  
25 for executing basket items buy transaction in response to total buy value amount, yield average and profit/loss value amount each of which is inputted into the boxes.

194. A storage medium in accordance with claim 193, wherein the step of (527) selectively registering a condition for executing basket items buy transaction sets a status which sum of present  
5 value amount of items listed in the past basket items sell transaction data table is lower than the total buy value amount inputted into the input box of the web page to the condition for executing basket items buy transaction.

10 195. A storage medium in accordance with claim 193, wherein the step of (527) registering a condition for executing basket items buy transaction sets a status which the yield average in the past basket items buy transaction data table, the yield average being estimated based on present stock prices, is about the same as the  
15 yield average inputted into the input box of the web page to the condition for executing basket buy transaction.

196. A storage medium in accordance with claim 193, wherein the step of (527) registering a condition for executing basket items  
20 buy transaction sets a status which the sum of profit/loss value amount in the past basket items buy transaction data table, the sum of profit/loss value amount being estimated based on present stock prices, is about the same as the sum of profit/loss value amount inputted into the input box of the web page to the condition  
25 for executing basket items buy transaction.

[illegible]

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